

Title (en)

Curvature correction device, optical scanning unit, and image forming apparatus

Title (de)

Kurvenkorrekturvorrichtung, optische Abtasteinheit und Bilderzeugungsvorrichtung

Title (fr)

Dispositif de correction de courbure, unité de balayage optique, et appareil de formation d'images

Publication

**EP 2017664 B1 20140903 (EN)**

Application

**EP 08252254 A 20080702**

Priority

- JP 2007174458 A 20070702
- JP 2008014063 A 20080124

Abstract (en)

[origin: EP2017664A2] A curvature correction device (200Y) used in an optical scanning unit is described. The optical scanning unit includes a light beam emitter to emit a light beam, a deflection unit to deflect the light beam in a main scanning direction, and a reflection mirror (46Y) to reflect the light beam. The curvature correction device (200Y) includes a holder (52Y) and a pushing unit (65Y). The holder (52Y) holds the reflection mirror (46Y) in a state in which the reflection mirror (46Y) is forcibly bent in a first direction. The pushing unit (65Y) pushes the reflection mirror (46Y) held by the holder (52Y) to bend the reflection mirror in a second direction opposite the first direction. The curvature correction device (200Y) corrects the curvature of the main scanning line by adjusting an amount at which the pushing unit(65Y) pushes the reflection mirror (46Y). The holder (52Y) has a stiffness larger than the stiffness of the reflection mirror (46Y).

IPC 8 full level

**G02B 26/10** (2006.01)

CPC (source: EP US)

**G02B 26/0825** (2013.01 - EP US); **G02B 26/125** (2013.01 - EP US); **G02B 27/0031** (2013.01 - EP US)

Cited by

US9151926B2; WO2012116693A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 2017664 A2 20090121**; **EP 2017664 A3 20091014**; **EP 2017664 B1 20140903**; CN 101339296 A 20090107; CN 101339296 B 20120222; JP 2009031729 A 20090212; JP 5354323 B2 20131127; US 2009009836 A1 20090108; US 8107148 B2 20120131

DOCDB simple family (application)

**EP 08252254 A 20080702**; CN 200810137639 A 20080701; JP 2008014063 A 20080124; US 21618708 A 20080701